

SEQUENCE LISTING

<110> Stoddard, Barry L.
 Pratt, Kathleen
 Fujikawa, Kazuo
 Davie, Earl W.
 Fred Hutchinson Cancer Research Center
 University of Washington

<120> Crystal of a Truncated Protein Construct Containing a
 Coagulation Factor VIII C2 Domain in the Presence or
 Absence of a Bound Ligand and Methods of Use Thereof

<130> 14538A-005310US

<140> US 10/049,399

<141> Not yet assigned

<150> US 60/148,907

<151> 1999-08-13

<150> WO PCT/US00/22226

<151> 2000-08-11

<160> 12

<170> PatentIn Ver. 2.1

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<212> PRT

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<210> 7

<211> 160

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:human Factor
VIII C2 domain

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<223> Xaa = Ala (wild-type) or Pro (hemophilia A
mutation)

<220>

<221> VARIANT

<222> (35)

<223> Xaa = Lys (wild-type) or Gln, Leu or Gly
(hemophilia A mutations)

<220>

<221> VARIANT

<222> (54)

<223> Xaa = Pro (wild-type) or Cys (hemophilia A
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<220>
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<220>
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<220>
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20 25 30
Pro Ser Xaa Ala Arg Leu His Leu Gln Gly Arg Ser Asn Ala Trp Arg
35 40 45
Pro Gln Val Asn Asn Xaa Lys Glu Trp Leu Gln Val Asp Phe Gln Lys
50 55 60
Thr Xaa Lys Val Thr Gly Val Thr Xaa Xaa Gly Val Lys Ser Leu Leu
65 70 75 80
Thr Ser Met Tyr Val Lys Glu Phe Leu Xaa Ser Ser Ser Gln Asp Gly
85 90 95
His Gln Trp Thr Leu Phe Phe Gln Asn Gly Lys Val Lys Val Xaa Gln
100 105 110
Gly Asn Gln Asp Ser Phe Thr Pro Val Val Asn Ser Leu Asp Pro Xaa
115 120 125
Leu Leu Thr Xaa Tyr Leu Xaa Ile His Pro Gln Ser Trp Val His Gln
130 135 140
Ile Ala Leu Xaa Met Glu Val Leu Xaa Cys Glu Ala Gln Asp Leu Tyr
145 150 155 160

<210> 8

<211> 160

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: murine Factor
VIII C2 domain

<400> 8

Ser Cys Ser Ile Pro Leu Gly Met Glu Ser Lys Val Ile Ser Asp Thr
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Gln Ile Thr Ala Ser Ser Tyr Phe Thr Asn Met Phe Ala Thr Trp Ser
20 25 30
Pro Ser Gln Ala Arg Leu His Leu Gln Gly Arg Thr Asn Ala Trp Arg
35 40 45
Pro Gln Val Asn Asp Pro Lys Gln Trp Leu Gln Val Asp Leu Gln Lys
50 55 60
Thr Met Lys Val Thr Gly Ile Ile Thr Gln Gly Val Lys Ser Leu Phe
65 70 75 80
Thr Ser Met Phe Val Lys Glu Phe Leu Ile Ser Ser Ser Gln Asp Gly
85 90 95

His	His	Trp	Thr	Gln	Ile	Leu	Tyr	Asn	Gly	Lys	Val	Lys	Val	Phe	Gln
			100					105					110		
Gly	Asn	Gln	Asp	Ser	Ser	Thr	Pro	Met	Met	Asn	Ser	Leu	Asp	Pro	Pro
	115						120					125			
Leu	Leu	Thr	Arg	Tyr	Leu	Arg	Ile	His	Pro	Gln	Ile	Trp	Glu	His	Gln
	130					135					140				
Ile	Ala	Leu	Arg	Leu	Glu	Ile	Leu	Gly	Cys	Glu	Ala	Gln	Gln	Gln	Tyr
145					150					155					160

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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: canine Factor
 VIII C2 domain

<400> 9
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20 25 30
Pro Ser Gln Ala Arg Leu His Leu Gln Gly Arg Thr Asn Ala Trp Arg
35 40 45
Pro Gln Ala Asn Asn Pro Lys Glu Trp Leu Gln Val Asp Phe Arg Lys
50 55 60
Thr Met Lys Val Thr Gly Ile Thr Thr Gln Gly Val Lys Ser Leu Leu
65 70 75 80
Ile Ser Met Tyr Val Lys Glu Phe Leu Ile Ser Ser Ser Gln Asp Gly
85 90 95
His Asn Trp Thr Leu Phe Leu Gln Asn Gly Lys Val Lys Val Phe Gln
100 105 110
Gly Asn Arg Asp Ser Ser Thr Pro Val Arg Asn Arg Leu Glu Pro Pro
115 120 125
Leu Val Ala Arg Tyr Val Arg Leu His Pro Gln Ser Trp Ala His His
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Ile Ala Leu Arg Leu Glu Val Leu Gly Cys Asp Thr Gln Gln Pro Ala
145 150 155 160

<210> 10
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 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:porcine Factor
VIII C2 domain

<400> 10

Ser	Cys	Ser	Met	Pro	Leu	Gly	Met	Gln	Asn	Lys	Ala	Ile	Ser	Asp	Ser
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Gln	Ile	Thr	Ala	Ser	Ser	His	Leu	Ser	Asn	Ile	Phe	Ala	Thr	Trp	Ser
			20					25					30		
Pro	Ser	Gln	Ala	Arg	Leu	His	Leu	Gln	Gly	Arg	Thr	Asn	Ala	Trp	Arg
		35					40					45			
Pro	Arg	Val	Ser	Ser	Ala	Glu	Glu	Trp	Leu	Gln	Val	Asp	Leu	Gln	Lys
	50					55					60				
Thr	Val	Lys	Val	Thr	Gly	Ile	Thr	Thr	Gln	Gly	Val	Lys	Ser	Leu	Leu
65					70					75					80
Ser	Ser	Met	Tyr	Val	Lys	Glu	Phe	Leu	Val	Ser	Ser	Ser	Gln	Asp	Gly
			85						90					95	
Arg	Arg	Trp	Thr	Leu	Phe	Leu	Gln	Asp	Gly	His	Thr	Lys	Val	Phe	Gln
			100					105					110		
Gly	Asn	Gln	Asp	Ser	Ser	Thr	Pro	Val	Val	Asn	Ala	Leu	Asp	Pro	Pro
	115						120					125			
Leu	Phe	Thr	Arg	Tyr	Leu	Arg	Ile	His	Pro	Thr	Ser	Trp	Ala	Gln	His
	130					135					140				
Ile	Ala	Leu	Arg	Leu	Glu	Val	Leu	Gly	Cys	Glu	Ala	Gln	Asp	Leu	Tyr
145					150				155					160	

<210> 11

<211> 159

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:porcine Factor
V C2 domain

<400> 11

Gly	Cys	Ser	Thr	Pro	Leu	Gly	Met	Glu	Asn	Gly	Lys	Ile	Glu	Asn	Lys
1				5				10						15	
Gln	Ile	Thr	Ala	Ser	Ser	Phe	Lys	Lys	Ser	Trp	Trp	Gly	Asp	Tyr	Trp
			20					25					30		
Glu	Pro	Phe	Arg	Ala	Arg	Leu	Asn	Ala	Gln	Gly	Arg	Val	Asn	Ala	Trp
		35					40					45			
Gln	Ala	Lys	Ala	Asn	Asn	Asn	Lys	Gln	Trp	Leu	Glu	Ile	Asp	Leu	Leu
	50					55					60				
Lys	Ile	Lys	Lys	Ile	Thr	Ala	Ile	Ile	Thr	Gln	Gly	Cys	Lys	Ser	Leu
65					70					75					80

